

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets

(11)



EP 1 087 467 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
15.01.2003 Bulletin 2003/03

(51) Int Cl. 7: H01R 12/22, H01R 13/24

(43) Date of publication A2:
28.03.2001 Bulletin 2001/13

(21) Application number: 00308326.8

(22) Date of filing: 22.09.2000

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 24.09.1999 JP 26962499

(71) Applicant: **Kimoto, Gunsei
Minato-Ku, Tokyo (JP)**

(72) Inventor: **Kimoto, Gunsei
Minato-Ku, Tokyo (JP)**

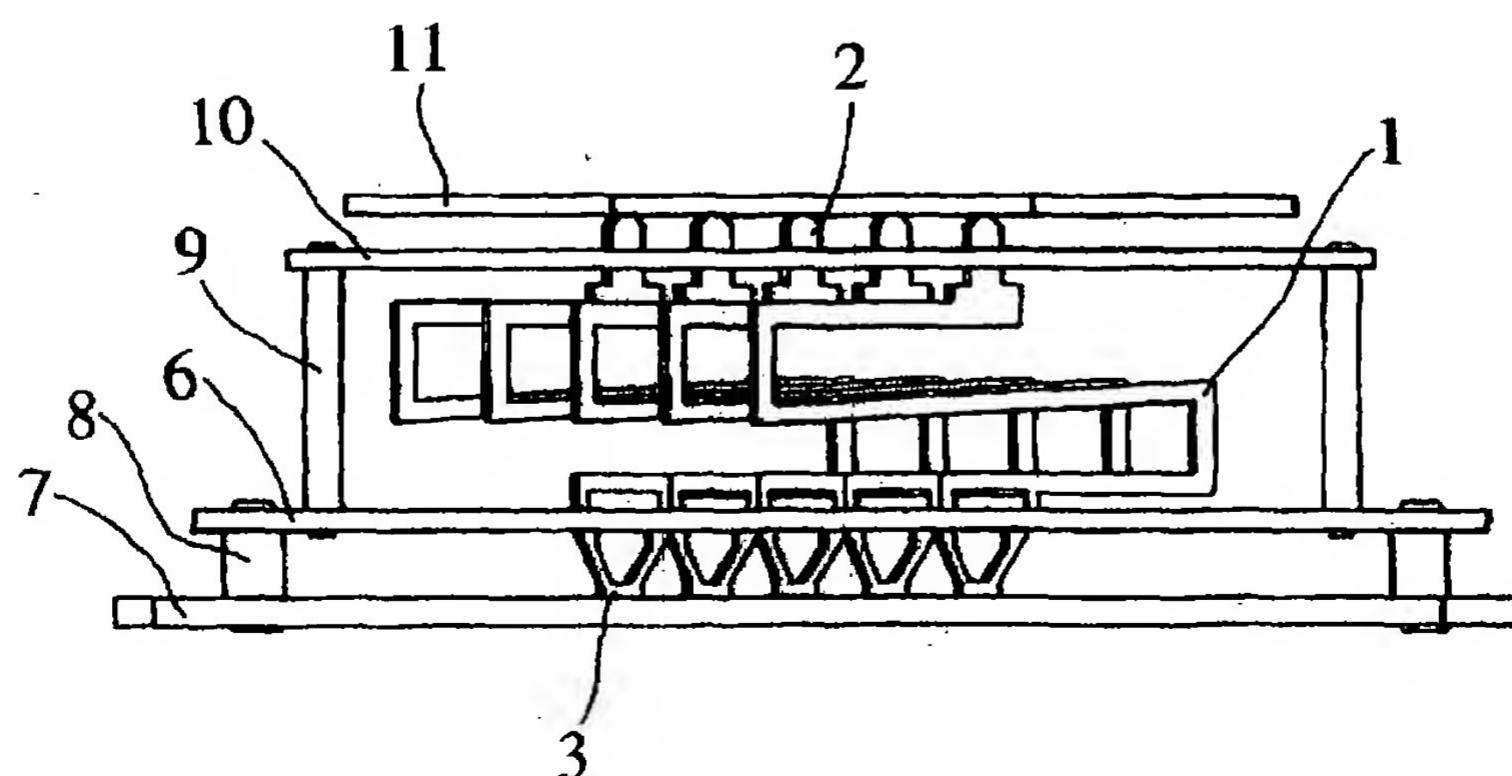
(74) Representative: **Bubb, Antony John Allen et al
Wilson Gunn Gee,
Chancery House,
Chancery Lane
London WC2A 1QU (GB)**

(54) Contact and contact assembly using the same

(57) The present invention provides a mechanism of a lattice type contact assembly capable of ensuring an appropriate space occupied by a deformation section, and a contact (1) having an appropriate deformation structure conforming to the arrangement in which thin plate contacts (1) are inclined. Contacts having winding elastic deformation sections such that the

shape of elastic deformation sections can be selected from many possible alternatives and the relative positional relationship between input sections (2) and output sections (3) can be freely selected are arranged so as to have a certain angle with respect to the x-axis, thereby making it possible to realize a contact assembly with a lattice arrangement of a small pitch.

Fig. 5



EP 1 087 467 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 30 8326

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	EP 0 384 656 A (AMP INC) 29 August 1990 (1990-08-29) * column 4, line 15 – column 5, line 15; figures 4-7 *	1,2,4-7, 9,10	H01R12/22 H01R13/24
A	US 4 969 826 A (GRABBE DIMITRY G) 13 November 1990 (1990-11-13) * column 2, line 52 – column 3, line 64; figures 1,2A,3 *	1-10	
A	US 5 545 045 A (WAKAMATSU HIDEKI) 13 August 1996 (1996-08-13) * abstract; figures 6A-9 *	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	18 October 2002	Criqui, J-J	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 8326

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-10-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0384656	A	29-08-1990	US	4927369 A	22-05-1990
			DE	69006373 D1	17-03-1994
			DE	69006373 T2	01-09-1994
			DK	384656 T3	07-03-1994
			EP	0384656 A1	29-08-1990
			IE	64482 B1	09-08-1995
			JP	2247995 A	03-10-1990
			JP	2819179 B2	30-10-1998
			KR	9504374 B1	28-04-1995
US 4969826	A	13-11-1990	DE	4039009 A1	13-06-1991
			FR	2655484 A1	07-06-1991
			JP	2829402 B2	25-11-1998
			JP	3250573 A	08-11-1991
US 5545045	A	13-08-1996	JP	3054003 B2	19-06-2000
			JP	7073941 A	17-03-1995
			KR	166405 B1	15-01-1999